

**WYOMING POLLUTANT DISCHARGE ELIMINATION SYSTEM
APPLICATION FOR PERMIT TO SURFACE DISCHARGE PRODUCED WATER FROM
OIL AND GAS PRODUCTION UNIT DISCHARGES**

August 8, 2016

PLEASE PRINT OR TYPE (*Submission of illegible materials will result in return of the application to the applicant*)

1. The discharging facility will produce:

Oil ☐ Oil and natural gas ☐ Natural gas ☐

Check the box corresponding to the type of application being applied for:

☐ New Permit

☐ Permit Renewal. Permit number _____ Expiration Date: _____

☐ Permit Modification. Permit number _____ Expiration Date: _____

(For permit modification, please attach letter explaining modifications requested.)

2. **Company, Contact Name, mailing address, e-mail address, and telephone number** of the individual or company which owns the facility producing the discharge, and the person (consultant) responsible for permit submission.

<i>Company Contact Name</i>	<i>Consultant Contact Name</i>
<i>Company Name</i>	<i>Company Name</i>
<i>Mailing Address</i>	<i>Mailing Address</i>
<i>City, State, and Zip Code</i>	<i>City, State, and Zip Code</i>
<i>Telephone Number</i>	<i>Telephone Number</i>
<i>E-Mail Address</i>	<i>E-Mail Address</i>

Status of applicant as owner, operator or both _____

Status of applicant as federal, state, private or public _____

3. Name of the facility (lease, tank battery #, etc.) producing the discharge (this is the facility name that will appear on the WYPDES permit. It is not necessary to name every well contributing to this facility's discharge in this section)

4. Name(s) and mailing address(es) of owner(s) of the surface rights on whose land the discharge occurs (in cases where the land is owned by the state or federal government but surface rights are leased to a private individual, provide lessee's name and address)

For Agency Use Only

Application Number

WY00 _____

Date Received:

(mo/day/yr)

<i>Landowner #1 Name</i>	<i>Landowner #2 Name</i>
<i>Mailing Address</i>	<i>Mailing Address</i>
<i>City, State, and Zip Code</i>	<i>City, State, and Zip Code</i>
<i>Landowner #3 Name</i>	<i>Landowner #4 Name</i>
<i>Mailing Address</i>	<i>Mailing Address</i>
<i>City, State, and Zip Code</i>	<i>City, State, and Zip Code</i>

(additional spaces may be added as necessary)

5. Provide outfall information in Table 1 below.

TABLE 1. Outfall information

Discharge Point (Outfall) #	Immediate Receiving Stream	Mainstem* (Nearest Perennial Water)	Distance from outfall to main stem (stream miles) *	Quarter/ Quarter	Section	Township	Range	Latitude (NAD 83, decimal degree format, accuracy to nearest 5 decimal places)	Longitude (NAD 83, decimal degree format, accuracy to nearest 5 decimal places)	County
001										
002										
003										
004										
005										

* The mainstem is the closest perennial water (class 2). Stream distance from the outfall to the mainstem should be measured in stream miles versus as "the crow flies".

6. Describe measures to prevent access to the skimming ponds by large grazing animals. _____
- _____
7. Describe measures employed to deter/exclude migratory birds from the skimming ponds.
- _____
8. Attach a description and clear, legible, detailed topographic map of the discharging facility extending one mile beyond the property boundaries of the source. Include the following:
- a. A legend
 - b. Discharge points (outfalls)
 - c. Immediate receiving streams
 - d. Section, Township, and Range information
 - e. Well locations
 - f. Water flow lines
 - g. Wells, springs, other surface water bodies, drinking water wells, and surface water intake structures listed in public records, or otherwise known to the applicant in the map area.
 - h. Hazardous waste treatment, storage, or disposal facilities
9. Attach a site diagram. Include the following:
- a. Water flow lines
 - b. Treater units
 - c. Skimming tanks
 - d. Skimming Ponds
 - e. Stock tanks

If any of the above items in 8 or 9 are not applicable please indicate in the description and include a brief explanation as to why the items are not applicable)

10. Describe the control measures that will be implemented to achieve water quality standards and effluent limits. If proposing to utilize a treatment process, provide a description of the treatment process. **Include list of chemicals** used and provide a Material Safety Data Sheet (MSDS) for each chemical. _____
11. Describe the control measures that will be implemented to prevent significant damage to or erosion of the receiving water channel at the point of discharge. _____
12. For facilities that utilize mechanical treatments systems, other than skim pits and heater treaters, please provide a schematic line drawing showing the water flow and water balance through the facility. The water balance must show approximate average flows at intake and discharge points and between units, including treatment units. If a water balance cannot be determined, a pictorial description of the nature and amount of any sources of water and any collection and treatment measures may be provided.

- 13.** Provide a list of all potential pollutants expected to be in the discharge and an explanation of their presence in the discharge.

- 14.** Provide the results of a water analyses for a sample collected from a location representative of the quality of water being proposed for discharge for the parameters listed below, in Table 2.

The analyses must be conducted in accordance with approved EPA test procedures (40 CFR Part 136). Include a signed copy of your lab report that includes the following:

- a.** Analytical method
- b.** Results of each of the chemical parameters at the chemical state given below
- c.** Quarter/quarter, section, township and range of the sample collection location
- d.** Time and date of sample collection
- e.** Time and date of analysis for each parameter
- f.** Detection limit for each parameter as achieved by the laboratory.

TABLE 2

PARAMETER	REQUIRED DETECTION LIMIT and Required Units	STANDARD OR LIMIT*	SAMPLE RESULTS (Also submit lab results with application)
Aluminum, Dissolved	50 ug/L	750 ug/L	
Arsenic, Total Recoverable	1 ug/L	150 ug/L	
Barium, Total Recoverable (<i>New Facilities</i>)	100 µg/L	2000 ug/L	
Boron, Dissolved (<i>New Facilities Only</i>)	100 ug/L	5000 ug/L	
Cadmium, Dissolved	5 ug/L	0.25 ug/L (hardness dep)	
Calcium, Dissolved	50 ug/L, report as mg/L		
Chloride – Technology Based	5 mg/L	2000 mg/L	
Chloride, For Class 2A and 2B Waters	5 mg/L	230 mg/L	
Chromium, Total	1ug/L	74.1 ug/L (hardness dependent)	
Copper, Dissolved	10 ug/L	9 ug/L (hardness	
Fluoride, Dissolved (<i>New Facilities Only</i>)	100 ug/L	4,000 ug/L	
Hardness (CaCO ₃) mg/L	10 mg/L as CaCO ₃	(for metals analyses)	
Iron, Dissolved	50 ug/L	1000 ug/L	
Iron, Dissolved, for Class 2A and 2AB waters	50 ug/L	300 ug/L	
Lead, Dissolved	2 ug/L	2.5 ug/L (hardness dep)	
Magnesium, Dissolved	100 ug/L, report as mg/L		
Manganese, Dissolved	50 ug/L	1462 ug/L (hardness dep)	
Manganese, Dissolved, for Class 2A and 2AB	50 ug/L	50 ug/L	
Mercury, Dissolved	1 ug/L	0.77 ug/L	
Molybdenum, Dissolved (<i>New Facilities Only</i>)	100 ug/L	300 ug/L	
Nickel, Dissolved	10 ug/L	52 ug/L (hardness dep)	
Oil and Grease	5 mg/L	10 mg/L	
pH	0.1 pH unit	6.5-9.0 s.u.	
Radium 226, Total Recoverable	0.2 pCi/L	5 or 60 pCi/L	
Radium 228, Total Recoverable**	0.2 pCi/L	5 pCi/L	
Selenium, Total Recoverable	5 ug/L	5 ug/L	
Silver, Dissolved	3 ug/L	3.4 ug/L (hardness dep)	
Sodium Adsorption Ratio	Calculated as unadjusted ratio		
Sodium, Dissolved	100 ug/L, report as mg/L		
Specific Conductance	5 micromhos/cm	7500 micromhos/cm	
Sulfates	10 mg/L	3000 mg/L	
Sulfide-Hydrogen Sulfide (S ²⁻ , HS ⁻)	0.1 mg/L	2 ug/L	
Total Dissolved Solids	10 mg/L	5000 mg/L	
Total Petroleum Hydrocarbons	1 mg/L		
Zinc, Dissolved	50 ug/L	118.1 ug/L (hardness dep)	

*The values listed in the Standard or Limit column are associated with water quality standards (Chapter 1 of Wyoming Water Quality Rules and Regulations) or technology-based effluent limits (Chapter 2 of Wyoming Water Quality Rules and Regulations).

**This parameter is only required for those discharges located within one stream mile of a class 2 water.

15. Which geologic formation is the origin of the produced water? _____

16. Were the above analyses collected from this facility (referenced in item 3)?

☐ YES ☐ NO

If no, describe origin of samples including well name, location, depth, geologic formation, field, and date sample was analyzed:

17. **For new facilities**, provide the expected (estimated) flow rate from each outfall in barrels per day and million gallons per day, and provide the rationale behind the flow rate estimate. _____

Expected date of commencement of discharge. _____

For existing facilities, provide actual flow data from each outfall within the last six months

Will discharge be ☐ continuous or ☐ intermittent?

If the discharge is to be intermittent the following information for each outfall shall be provided:

- (I) Number of times per year the discharge is to occur.
- (II) Anticipated duration of each discharge.
- (III) Anticipated flow of each discharge.
- (IV) Months in which discharge is expected to occur.

18. Are any of the required chemical constituents in the laboratory analysis present in concentrations above Wyoming Water Quality Standards or limits as identified in the third column in Table 2, page 5?

☐ YES ☐ NO

If the answer to question # 16 is yes, answer 16a.–16.c below. If no, proceed to question 19.

a. Which constituents? _____

b. Has this constituent been addressed in the response to question 10? _____

c. Describe how the exceedance was addressed. _____

19. Will blending of fresh water with produced water be used as a treatment option?

☐ YES ☐ NO

If the answer to question # 19 is yes, answer 19a.–19.c below. If no, proceed to question 20.

- a. What is the anticipated blending rate of fresh water and produced water? _____
Be advised that permit will require water quantity and quality monitoring before and after blending occurs. Also, an automated shutdown system must be installed and maintained on site that terminates the discharge of produced water in the event of the shutdown of the fresh water supply.
- b. Provide confirmation from the State Engineer's office of fresh water use.
- c. What is source of fresh water to be blended? No surface water source is allowed.

20. 40 CFR Part 435 Subpart E requires that the permittee document agricultural and wildlife uses of produced water. Provide documentation that the produced water will be used for agriculture or wildlife during periods of discharge. Agriculture and wildlife use includes irrigation, livestock watering, wildlife watering, and other agricultural uses. Agricultural and wildlife use documentation includes (but is not limited to) a certified letter from a landowner(s), a formal written statement from a state, federal or local resource management agency, or a formal written statement with supporting documentation from a natural resources or environmental professional accompanied by the credentials of the natural resources or environmental professional. Agriculture and wildlife use documentation must be provided for each outfall included in the application. Agricultural and wildlife certification must be submitted for each outfall's discharge, and must have original signatures.

Facilities permitted prior to June 10, 2002 are exempt from the above requirement. The Wyoming Game and Fish Department has determined that discharges of produced water from WYPDES-permitted oil production units in Wyoming, existing as of June 10, 2002, are being used to enhance wildlife propagation and habitat.

- ☐ This facility was WYPDES or NPDES permitted prior to June 10, 2002
☐ Documentation of beneficial use is enclosed

21. The applicant may submit any optional information the applicant wishes to have considered.

Authorized signatories for this application are the following:	
<i>For corporations:</i>	<i>A principal executive officer of at least the level of vice president, or the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the overall operation of the facility from which the discharge originates.</i>
<i>For partnerships:</i>	<i>A general partner.</i>
<i>For a sole proprietorship:</i>	<i>The proprietor.</i>
<i>For a municipal, state, federal or other public facility:</i>	<i>Either a principal executive officer or ranking elected official.</i>

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed Name of Person Signing

Title

Signature of Applicant

Date

Telephone

Fax

Section 35-11-901 of Wyoming Statutes provides that:

Unique Footer ID: Company/Name/Year/Month/Day/Application Type/Permit # or Application #/Document #

*All permit applications must be signed in accordance with 40 CFR Part 122.22, “for” or “by” signatures are not acceptable.

Section 35-11-901 of Wyoming Statutes provides that:

Any person who knowingly makes any false statement, representation, or certification in any application ... shall upon conviction be fined not more than \$10,000 or imprisoned for not more than one year, or both.

Mail this application to:

WYPDES Permits Section
Department of Environmental Quality/WQD
200 W. 17th Street, Suite 400
Cheyenne, WY 82002

Wyoming Statute 35-11-312 was revised to require discharge permit fees be paid prior to permit issuance. Therefore, payment of permit fees must be accompanied with the application. Any application received without proper fee payment will be returned.

Individual permits are issued for a period of five years. A check for \$500 per permit must be included with all applications for new permits and renewals for individual WYPDES permits.

I have enclosed a check for \$_____

Check Number _____

Please include unique footer information on each page of this application and on all supporting documentation using the following format:

Company Name/Year/Month/Day/NEW, MOD, RENEWAL/Permit # (if a modification or renewal) or Application # (from this particular company) for that particular day

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Date Check Received_____

Check Amount _____

Permit Term _____

Approval _____